

Page 13, between lines 2 and 3, please insert the following paragraph

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The present invention makes it very easy to design sequencing kits for the detection of mutations in genes of medical significance. In the past, a kit for carrying out an analysis on a genomic DNA sample required one set of amplification primers (generally unlabeled), and a separate labeled sequencing primer. As a consequence of using the method of the invention, however, one can provide only a single tube of reactants for each portion of the genomic DNA to be sequenced (for example one tube per exon). Thus, a further aspect of the present invention are kits for sequencing a plurality of DNA regions from a genomic DNA sample consisting of a single region-specific reagent for each region, and optionally one or more non-region-specific reagents. For a single use kit, the single region specific reagent will generally be packaged in just one container, although it will be understood that providing multiple containers of the same reagent is within the scope of the present invention.

In the claims:

✓
Please cancel claims 1-12 without prejudice and add claims 13-36 as follows:

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13. A kit for sequencing a one or more DNA regions from a genomic DNA sample or a microorganism, said kit consisting of, in packaged combination, a single tube of region-specific reagents for each DNA region to be sequenced and optionally one or more non-region specific reagents.

14. The kit of claim 13, wherein the kit includes, as region-specific reagents, a pair of primers which bind to the sense and antisense strands and flank one of the DNA regions within the genomic or microorganism DNA.

Sub B2
15. The kit of claim 14, wherein the kit is for sequencing one or more DNA regions from a genomic sample and the primers bind to the sense and antisense strands of the